



## AM Trace

### Atmosphere Gas Portable Analyser



The AM Trace transportable dual measurement (O<sub>2</sub> & H<sub>2</sub>O) analyzer has been specifically designed for use in additive manufacturing.

The AM Trace utilizes electrochemical technology which can measure from 0.1 PPM to 25% oxygen and is unaffected by off gases (including hydrogen) produced in the build chamber.

The SF82 moisture sensor can quickly respond to moisture changes from -60°C dewpoint (10ppm H<sub>2</sub>O).

This rugged and portable benchtop device includes a large touchscreen colour display which allows for onboard data logging and trending of gas concentrations.

### Applications

- » Additive Manufacturing
- » Atmospheric Chamber Control
- » Inert Gas Purity
- » Air Separation
- » Gas Generation (oxygen / nitrogen)

### Features

- » Accurately monitors oxygen and moisture levels in the AM build chamber
- » User-friendly touch-screen interface includes status notifications
- » Electronic flow sensor
- » RS-485 serial communications
- » USB / Flash drive input
- » Internal pump to extract sample from process
- » Portable case with handle



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**PST**  
PROCESS SENSING  
TECHNOLOGIES

# AM Trace

## Atmosphere Gas Portable Analyser

### Technical specifications

| Performance             |  |
|-------------------------|--|
| Transmitter Model       | AM Trace   |
| Measured gas / range    | Oxygen / Dual Range 0 - 1,000 PPM / 0 - 25%        |
| Measured moisture range | -60°C to +20°C DP                                  |
| Response time (T90)     | <15 seconds (oxygen)                               |
| Response time (T95)     | -60°C to -20°C dew point < 1 minute                |
| Repeatability           | ±0.5% of reading                                   |
| Moisture repeatability  | 0.5°C dew point                                    |
| Power supply            | 24VDC ±10%   |
| Output Signal           | 2 X 4 - 20mA (1 x oxygen / 1 x moisture)           |
| Sample flow             | 1 litre  |
| Display                 | 7" Touchscreen colour display                      |
| Relay Output            | 2 Relay Contacts per Channel                       |
| Communications          | RS-485   |
| Moisture Accuracy       | ± 2°C dew point                                    |
| Oxygen Accuracy         | ± 2% of reading                                    |
| Temperature range       | 5°C to 40°C (Ambient)                              |
| Process Connection      | 1/8" BSP Input / Exhaust                           |
| Dimensions              | 350mm (D) x 253.4mm (W) x 314mm (H) (excl. handle) |
| Weight                  | 8.5kg (approx 19lb)                                |
| Certification           | Complies with EMC Directive 2004 / 108 / EC        |

### Ordering information

| Model       | Range  | Sensor Type     | Connection | Part No |
|-------------|--|-----------------|------------|---------|
| AM Trace EC | Oxygen: 1 PPM - 25% /<br>Moisture: -60°C to +20°C DP | Electrochemical | 1/8" BSP   | 05-627  |

### Related products



**SENZTX**  
Oxygen Transmitter



**SF82**  
Dew Point Transmitter



**Minox i**  
ATEX Rated O<sub>2</sub> Transmitter



**Microx-OL**  
Online Oxygen Analyser



**Microx**  
Oxygen Analyser



**Yellow Box**  
Portable O<sub>2</sub> Analyser



**GazTrak**  
Portable oxygen & moisture measurement